

# M 5.7, 114 km SSE of Kokopo, Papua New Guinea

Origin Time: 2023-09-28 19:21:17 UTC (Fri 05:21:17 local)  
Location: 5.2575° S 152.7555° E Depth: 48.9 km

Created: 2 hours, 3 minutes after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Intensity	Percentage
I	65%
II-III	30%
IV	4%

### Estimated Economic Losses

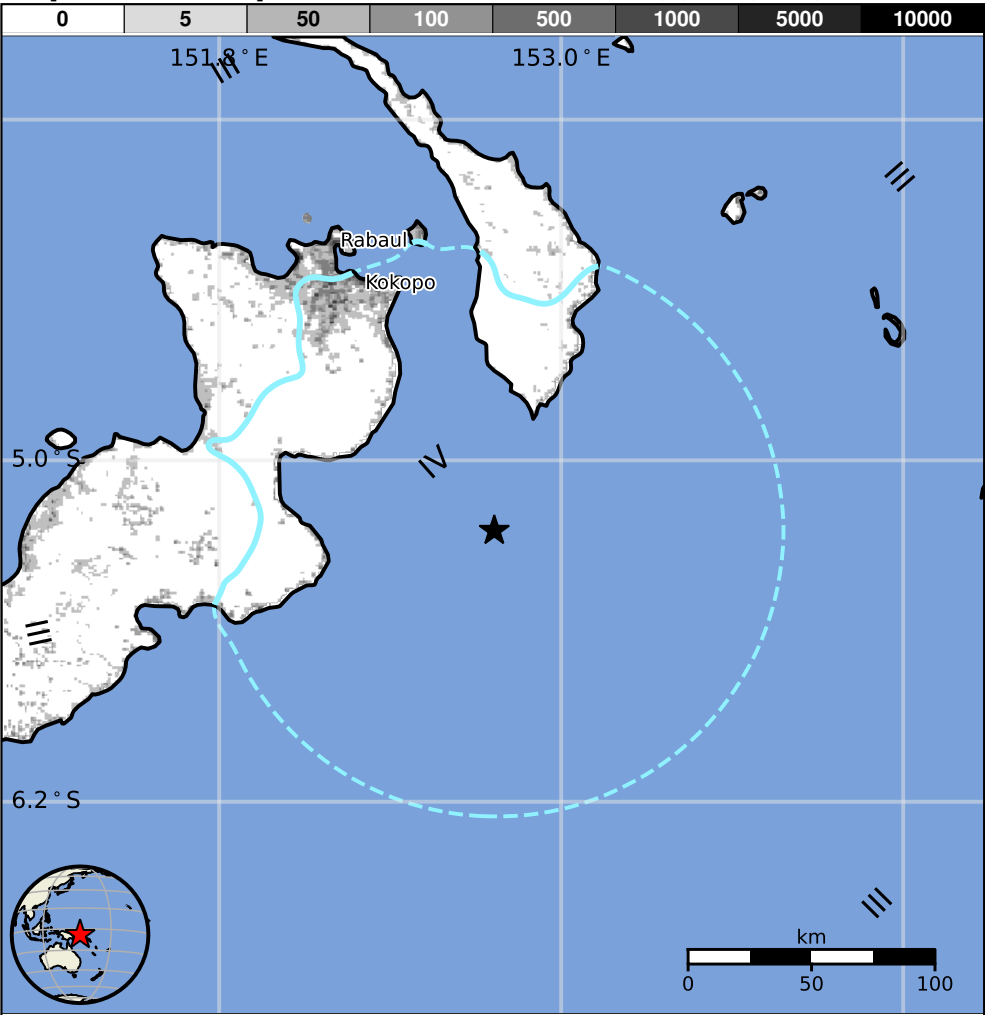
Intensity	Percentage
I	65%
II-III	30%
IV	4%

## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	246k*	206k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1996-04-29	296	7.2	VII(57k)	1
1985-05-10	191	7.2	VII(28k)	1
1983-12-21	97	6.2	VII(5k)	10

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Rabaul	8k
IV	Kokopo	26k

bold cities appear on map.

(k = x1000)